Bruhat Bangalore Mahanagara Palike

Executive Engineer

Bytarayanapura Division

QUALITY REPORT

(2nd & Part Bill)

Name of Work : PACKAGE NO-6 (CONSIST OF 14 WORKS)

Est. Cost: 1500.00 LAKHS

MECADEZ
Insight Makes It Happen

Mecadez Core Technologies Private limited

Project Management Consultancy Services

Registered Office: No.80, Aniketana,14th 'B' Main, West of Chord Road, 2nd Stage, 2nd Phase, Mahalakshmipuram, Bengaluru-560086

Ph: - +91-9538136111 +91-9483561234

E-mail: mecadez@gmail.com

Mecadez Core Technologies Private Limited
Project Management Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: PACKAGE NO.06 (CONSISTS OF 14 WORKS)

Job No: MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

Contractor M/s. SMLP Asphalts Prop. Sri B B Umesha,

Sl. No	Particulars of the Tests	PCC (1:3:6)			
		Quantity Cum	Frequency of Tests	Tests Required	Tests Carried Out
I	**Cement**	326.61	OPC 53 Grade		
1	Consistency test		1Test / Source of Supply	1	1
2	Fineness test		1Test / Source of Supply	1	1
3	Soundness test		1Test / Source of Supply	1	1
4	Compressive strength test				
i	7-days		1Test / Source of Supply	1	1
ii	28-days		1Test / Source of Supply	1	1
II	**Fine Aggregates**				
5	Gradation test		1Test / Day	1	1
III	**Coarse aggregates**				
6	Gradation test		1Test / Day	1	1
7	Water absorption test		Regular Intervals	1	1
8	Impact test		1Test / Source of Supply	1	1
IV	**Concrete**				

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Mecadez Core Technologies Private Limited

Consultant

Contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Test Report
Consistency test

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Source of Material
Material	Cement
Sample No	1
Sample Collection Date	2-Dec-2022
Tested Date	3-Dec-2022

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	31
3	Weight of Water (gm)	108	114	118	120	124
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	21	18	16	13	5.5

Results: Standard Consistency of Cement: 31.00%

Note:

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For Mecadez Core Technologies Private Limited

Mecadez Core Technologies Private Limited

Authorised Signature

Test Report
Fineness test

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Source of Material
Material	Cement
Sample No	1
Sample Collection Date	2-Dec-2022
Tested Date	3-Dec-2022

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	5.8	6.4
3	Percentage retained (%)	5.8	6.4
4	Average Percentage retained (%)	6.10	

Results: Residue of cement is: 6.10%
Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%
Note:

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For Mecadez Core Technologies Private Limited

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Test Report
Soundness test

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Source of Material
Material	Cement
Sample No	1
Sample Collection Date	2-Dec-2022
Tested Date	3-Dec-2022

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	17	19	16
3	Difference or expansion	6	9	5
4	Average Differences or Expansion in mm	6.67		

Results: Difference in Expansion of Cement: 6.67 mm
Comments: Maximum allowable Expansion of cement is 10mm.

Note:

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For Mecadez Core Technologies Private Limited

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Test Report
Compressive strength test

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Source of Material
Material	Cement
Sample No	1
Casting Date	7-Dec-2022
Tested Date	14-Dec-2022

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	53	7	-	0.894	70.6x70.6x70.6	2302.00	207	4984.36	41.53	41.63
2	53	7	-	0.862	70.6x70.6x70.6	2358.00	208	4984.36	41.73	

Results: 7-days Compressive strength of cement is 41.63 N/mm^2
Comments: 7-days Compressive strength of cement should not be less than 40 N/mm^2

Note:
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For Mecadez Core Technologies Private Limited

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Test Report
Compressive strength test

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Source of Material
Material	Cement
Sample No	1
Casting Date	7-Dec-2022
Tested Date	4-Jan-2023

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	53	28	-	0.85	70.6x70.6x70.6	2287.00	267.00	4984.36	53.57	53.47
2	53	28	-	0.89	70.6x70.6x70.6	2316.00	266.00	4984.36	53.37	

Results: 28-days Compressive strength of cement is 53.47 N/mm^2

Comments: 28-days Compressive strength of cement should not be less than53N/mm^2

Note:

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For Mecadez Core Technologies Private Limited

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AB-09

Test Report
Gradation test

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Source of Material
Material	Fine Aggregates
Sample No	1
Sample Collection Date	2-Dec-2022
Tested Date	2-Dec-2022

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0.00	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone ll Specification for PCC
2	4.75 mm	16.84	8.42	8.42	91.58	90-100	
3	2.36 mm	15.85	7.93	16.35	83.66	75-100	
4	1.18 mm	36.47	18.24	34.58	65.42	55-90	
5	600 µ	47.21	23.61	58.19	41.82	35-59	
6	300 µ	57.14	28.57	86.76	13.25	8-30	
7	150 µ	19.62	9.81	96.57	3.44	0-10	

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Test Report
Gradation test

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Source of Material
Material	Coarse aggregates
Sample No	1
Sample Collection Date	2-Dec-2022
Tested Date	4-Dec-2022

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	31.50	0.00	0.00	0.00	100.00	100	
2	26.50	451.45	11.29	11.29	88.71	85-95	
3	19.00	346.45	8.66	19.95	80.05	68-88	
4	9.50	984.68	24.62	44.56	55.44	45-65	
5	4.75	578.02	14.45	59.02	40.99	30-55	
6	0.60	862.45	21.56	80.58	19.42	8-30	
7	0.15	385.49	9.64	90.21	9.79	5-15	
8	0.08	256.89	6.42	96.64	3.36	0-5	

Note:

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For Mecadez Core Technologies Private Limited

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Test Report
Impact test

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Source of Material
Material	Coarse aggregates
Sample No	1
Sample Collection Date	2-Dec-2022
Tested Date	4-Dec-2022

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1325	1322
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	365	362
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	92	94
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	273	268
6	Aggregate Impact Value (w4 / w3)x100	%	25.21	25.97
7	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **25.59** %

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Test Report
WATER ABSORPTION TEST

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	PCC (1:3:6)
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Source of Material
Material	Coarse aggregates
Sample No	1
Sample Collection Date	2-Dec-2022
Tested Date	4-Dec-2022

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Wt of Basket Filled with Aggregates Immersed in water	W_2g	2074	2087	
3	Weight of Saturated Aggregate in water	W_sg = W_2- W_1	1313	1324	
4	Weight of saturated surface dry aggregate in Air	W_3 g	2109	2122	
5	Weight of water equal to the Volume of the Aggregate	W_3- W_s	796	798	
6	Weight of Oven dried Aggregate	W_4g	2070	2083	
7	Specific Gravity	W_4/(W_3- W_s)	2.60	2.61	2.61
8	Apparent Specific Gravity	W_4/(W_4- W_s)	2.73	2.74	2.74
9	Water Absorption	(W_4- W_3)*100/ W_4	1.88	1.87	1.88

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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For Mecadez Core Technologies Private Limited

123 - AB3-09

Authorised Signature

Mecadez Core Technologies Private Limited

Project Management Consultancy Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: **PACKAGAE NO.06 (CONSISTS OF 14 WORKS)**

Job No: MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

Contractor M/s. SMLP Asphalts Prop. Sri B B Umesha,

Sl. No	Particulars of the Tests	T.M.T Steel of Fe500 Grade			
		Quantity in Tonne	Frequency of Tests	Tests Required	Tests Carried Out
I	**Steel**				
1	Tensile strength test	41.33	1 sample per source	1	1

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

CONSULTANTS CONTRACTOR ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

Test Report
Steel

Project Name	PACKAGAE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer - Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	T.M.T Steel of Fe500 Grade
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	T.M.T Steel of Fe500 Grade
Tested Date	7-Dec-2022

Sl. No.	Dia in mm	Weight in Kg/mtr	Average Weight Kg/mtr	Ultimate Load in KN	Ultimate Tensile stress in N/mm^2	Average Ultimate Tensile Stress N/mm^2	Elongation in (%)	Bending and Rebending
1	8	0.395	0.395	29.47	586.00	587.00	18	OK
	8	0.395		29.57	588.00			
1	10	0.617	1.395	45.89	584.00	583.50	18	OK
	10	0.617		45.81	583.00			

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For Mecadez Core Technologies Private Limited

Mecadez Core Technologies Private Limited

Authorised Signature

Mecadez Core Technology Pvt. Ltd,

Project Management and Consultancy Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

Job No: **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

Contractor **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

Sl. No	Particulars of the Tests	M20 Concrete For Drian Raft			
		Quantity Cum	Frequency of Tests	Tests Required	Tests Carried Out
IV	**Concrete**				
1	Compressive strength test	277.67	1 to 5cum=1 sample 6 to 15 cum=2 sample 16 to 30cum=3 smaple 31 to 50cum= 4 sample 51cum and above= one additonal sample for every additional 50 cum or part therof	9	9
	7-days				
	28-days				

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	1
Casting Date	9-Dec-2022
Tested Date	16-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	8.62	150*150*150	2554.07	320.00	0.0225	14.22	14.43	14.44
2	20	7	8.47	150*150*150	2509.63	325.00	0.0225	14.44		
3	20	7	8.15	150*150*150	2414.81	329.00	0.0225	14.62		
4	20	7	8.69	150*150*150	2574.81	326.00	0.0225	14.49	14.44	
5	20	7	8.24	150*150*150	2441.48	321.00	0.0225	14.27		
6	20	7	8.66	150*150*150	2565.93	328.00	0.0225	14.58		

Results: 7-days Compressive strength of Concrete is 14.44 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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For Mecadez Core Technology Pvt. Ltd,

Mecadez Core Technologies Private Ltd. MECADEZ

AR-09

Authorised Signature

Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	2
Casting Date	9-Dec-2022
Tested Date	16-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	8.56	150*150*150	2536.30	329.00	0.0225	14.62	14.44	14.48
2	20	7	8.27	150*150*150	2450.37	322.00	0.0225	14.31		
3	20	7	8.36	150*150*150	2477.04	324.00	0.0225	14.40		
4	20	7	8.57	150*150*150	2539.26	326.00	0.0225	14.49	14.52	
5	20	7	8.26	150*150*150	2447.41	328.00	0.0225	14.58		
6	20	7	8.16	150*150*150	2417.78	326.00	0.0225	14.49		

Results: 7-days Compressive strength of Concrete is 14.48 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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For Mecadez Core Technology Pvt. Ltd,

Authorised Signature

Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	3
Casting Date	9-Dec-2022
Tested Date	16-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	8.65	150*150*150	2562.96	331.00	0.0225	14.71	14.53	14.57
2	20	7	8.36	150*150*150	2477.04	324.00	0.0225	14.40		
3	20	7	8.45	150*150*150	2503.70	326.00	0.0225	14.49		
4	20	7	8.66	150*150*150	2565.93	328.00	0.0225	14.58	14.61	
5	20	7	8.35	150*150*150	2474.07	330.00	0.0225	14.67		
6	20	7	8.25	150*150*150	2444.44	328.00	0.0225	14.58		

Results: 7-days Compressive strength of Concrete is 14.57 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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For Mecadez Core Technology Pvt. Ltd,

AR-09

Authorised Signature

Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	4
Casting Date	9-Dec-2022
Tested Date	16-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	8.75	150*150*150	2592.59	333.00	0.0225	14.80	14.62	14.66
2	20	7	8.46	150*150*150	2506.67	326.00	0.0225	14.49		
3	20	7	8.55	150*150*150	2533.33	328.00	0.0225	14.58		
4	20	7	8.76	150*150*150	2595.56	330.00	0.0225	14.67	14.70	
5	20	7	8.45	150*150*150	2503.70	332.00	0.0225	14.76		
6	20	7	8.35	150*150*150	2474.07	330.00	0.0225	14.67		

Results: 7-days Compressive strength of Concrete is 14.66 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	5
Casting Date	9-Dec-2022
Tested Date	16-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	8.84	150*150*150	2619.26	335.00	0.0225	14.89	14.71	14.75
2	20	7	8.55	150*150*150	2533.33	328.00	0.0225	14.58		
3	20	7	8.64	150*150*150	2560.00	330.00	0.0225	14.67		
4	20	7	8.85	150*150*150	2622.22	332.00	0.0225	14.76	14.79	
5	20	7	8.54	150*150*150	2530.37	334.00	0.0225	14.84		
6	20	7	8.44	150*150*150	2500.74	332.00	0.0225	14.76		

Results: 7-days Compressive strength of Concrete is 14.75 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	6
Casting Date	20-Dec-2022
Tested Date	27-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	8.94	150*150*150	2648.89	337.00	0.0225	14.98	14.80	14.84
2	20	7	8.65	150*150*150	2562.96	330.00	0.0225	14.67		
3	20	7	8.74	150*150*150	2589.63	332.00	0.0225	14.76		
4	20	7	8.95	150*150*150	2651.85	334.00	0.0225	14.84	14.87	
5	20	7	8.64	150*150*150	2560.00	336.00	0.0225	14.93		
6	20	7	8.54	150*150*150	2530.37	334.00	0.0225	14.84		

Results: 7-days Compressive strength of Concrete is 14.84 N/mm2
Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:
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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	7
Casting Date	20-Dec-2022
Tested Date	4-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.03	150*150*150	2675.56	339.00	0.0225	15.07	14.89	14.93
2	20	7	8.74	150*150*150	2589.63	332.00	0.0225	14.76		
3	20	7	8.83	150*150*150	2616.30	334.00	0.0225	14.84		
4	20	7	9.04	150*150*150	2678.52	336.00	0.0225	14.93	14.96	
5	20	7	8.73	150*150*150	2586.67	338.00	0.0225	15.02		
6	20	7	8.63	150*150*150	2557.04	336.00	0.0225	14.93		

Results: 7-days Compressive strength of Concrete is 14.93 N/mm2
Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:
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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	8
Casting Date	20-Dec-2022
Tested Date	4-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.13	150*150*150	2705.19	341.00	0.0225	15.16	14.98	15.01
2	20	7	8.84	150*150*150	2619.26	334.00	0.0225	14.84		
3	20	7	8.93	150*150*150	2645.93	336.00	0.0225	14.93		
4	20	7	9.14	150*150*150	2708.15	338.00	0.0225	15.02	15.05	
5	20	7	8.83	150*150*150	2616.30	340.00	0.0225	15.11		
6	20	7	8.73	150*150*150	2586.67	338.00	0.0225	15.02		

Results: 7-days Compressive strength of Concrete is 15.01 N/mm2
Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2
Note:
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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	9
Casting Date	20-Dec-2022
Tested Date	4-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.22	150*150*150	2731.85	343.00	0.0225	15.24	15.07	15.10
2	20	7	8.93	150*150*150	2645.93	336.00	0.0225	14.93		
3	20	7	9.02	150*150*150	2672.59	338.00	0.0225	15.02		
4	20	7	9.23	150*150*150	2734.81	340.00	0.0225	15.11	15.14	
5	20	7	8.92	150*150*150	2642.96	342.00	0.0225	15.20		
6	20	7	8.82	150*150*150	2613.33	340.00	0.0225	15.11		

Results: 7-days Compressive strength of Concrete is 15.10 N/mm2
Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2
Note:
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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	1
Casting Date	9-Dec-2022
Tested Date	6-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.32	150*150*150	2465.19	457.00	0.0225	20.31	20.27	20.24
2	20	28	8.46	150*150*150	2506.67	452.00	0.0225	20.09		
3	20	28	8.19	150*150*150	2426.67	459.00	0.0225	20.40		
4	20	28	8.75	150*150*150	2592.59	453.00	0.0225	20.13	20.22	
5	20	28	8.26	150*150*150	2447.41	450.00	0.0225	20.00		
6	20	28	8.29	150*150*150	2456.30	462.00	0.0225	20.53		

Results: 28-days Compressive strength of Concrete is 20.24 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	2
Casting Date	9-Dec-2022
Tested Date	6-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.62	150*150*150	2554.07	468.00	0.0225	20.80	20.41	20.40
2	20	28	8.57	150*150*150	2539.26	457.00	0.0225	20.31		
3	20	28	8.51	150*150*150	2521.48	453.00	0.0225	20.13		
4	20	28	8.29	150*150*150	2456.30	459.00	0.0225	20.40	20.39	
5	20	28	8.36	150*150*150	2477.04	460.00	0.0225	20.44		
6	20	28	8.65	150*150*150	2562.96	457.00	0.0225	20.31		

Results: 28-days Compressive strength of Concrete is 20.40 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	3
Casting Date	9-Dec-2022
Tested Date	6-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.71	150*150*150	2580.74	470.00	0.0225	20.89	20.50	20.49
2	20	28	8.66	150*150*150	2565.93	459.00	0.0225	20.40		
3	20	28	8.60	150*150*150	2548.15	455.00	0.0225	20.22		
4	20	28	8.38	150*150*150	2482.96	461.00	0.0225	20.49	20.47	
5	20	28	8.45	150*150*150	2503.70	462.00	0.0225	20.53		
6	20	28	8.74	150*150*150	2589.63	459.00	0.0225	20.40		

Results: 28-days Compressive strength of Concrete is 20.49 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	4
Casting Date	9-Dec-2022
Tested Date	6-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.81	150*150*150	2610.37	472.00	0.0225	20.98	20.59	20.58
2	20	28	8.76	150*150*150	2595.56	461.00	0.0225	20.49		
3	20	28	8.70	150*150*150	2577.78	457.00	0.0225	20.31		
4	20	28	8.48	150*150*150	2512.59	463.00	0.0225	20.58	20.56	
5	20	28	8.55	150*150*150	2533.33	464.00	0.0225	20.62		
6	20	28	8.84	150*150*150	2619.26	461.00	0.0225	20.49		

Results: 28-days Compressive strength of Concrete is 20.58 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	5
Casting Date	9-Dec-2022
Tested Date	6-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.90	150*150*150	2637.04	474.00	0.0225	21.07	20.68	20.67
2	20	28	8.85	150*150*150	2622.22	463.00	0.0225	20.58		
3	20	28	8.79	150*150*150	2604.44	459.00	0.0225	20.40		
4	20	28	8.57	150*150*150	2539.26	465.00	0.0225	20.67	20.65	
5	20	28	8.64	150*150*150	2560.00	466.00	0.0225	20.71		
6	20	28	8.93	150*150*150	2645.93	463.00	0.0225	20.58		

Results: 28-days Compressive strength of Concrete is 20.67 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	6
Casting Date	20-Dec-2022
Tested Date	17-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.00	150*150*150	2666.67	476.00	0.0225	21.16	20.77	20.76
2	20	28	8.95	150*150*150	2651.85	465.00	0.0225	20.67		
3	20	28	8.89	150*150*150	2634.07	461.00	0.0225	20.49		
4	20	28	8.67	150*150*150	2568.89	467.00	0.0225	20.76	20.74	
5	20	28	8.74	150*150*150	2589.63	468.00	0.0225	20.80		
6	20	28	9.03	150*150*150	2675.56	465.00	0.0225	20.67		

Results: 28-days Compressive strength of Concrete is 20.76 N/mm2
Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	7
Casting Date	20-Dec-2022
Tested Date	25-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.09	150*150*150	2693.33	478.00	0.0225	21.24	20.86	20.84
2	20	28	9.04	150*150*150	2678.52	467.00	0.0225	20.76		
3	20	28	8.98	150*150*150	2660.74	463.00	0.0225	20.58		
4	20	28	8.76	150*150*150	2595.56	469.00	0.0225	20.84	20.83	
5	20	28	8.83	150*150*150	2616.30	470.00	0.0225	20.89		
6	20	28	9.12	150*150*150	2702.22	467.00	0.0225	20.76		

Results: 28-days Compressive strength of Concrete is 20.84 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	8
Casting Date	20-Dec-2022
Tested Date	25-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.19	150*150*150	2722.96	480.00	0.0225	21.33	20.95	20.93
2	20	28	9.14	150*150*150	2708.15	469.00	0.0225	20.84		
3	20	28	9.08	150*150*150	2690.37	465.00	0.0225	20.67		
4	20	28	8.86	150*150*150	2625.19	471.00	0.0225	20.93	20.92	
5	20	28	8.93	150*150*150	2645.93	472.00	0.0225	20.98		
6	20	28	9.22	150*150*150	2731.85	469.00	0.0225	20.84		

Results: 28-days Compressive strength of Concrete is 20.93 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drian Raft
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	9
Casting Date	20-Dec-2022
Tested Date	25-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.28	150*150*150	2749.63	482.00	0.0225	21.42	21.04	21.02
2	20	28	9.23	150*150*150	2734.81	471.00	0.0225	20.93		
3	20	28	9.17	150*150*150	2717.04	467.00	0.0225	20.76		
4	20	28	8.95	150*150*150	2651.85	473.00	0.0225	21.02	21.01	
5	20	28	9.02	150*150*150	2672.59	474.00	0.0225	21.07		
6	20	28	9.31	150*150*150	2758.52	471.00	0.0225	20.93		

Results: 28-days Compressive strength of Concrete is 21.02 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Project Management and Consultancy Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

Job No: **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

Contractor **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

Sl. No	Particulars of the Tests	M20 Concrete For Drian Wallt			
		Quantity Cum	Frequency of Tests	Tests Required	Tests Carried Out
IV	Concrete				
1	Compressive strength test	404.52	1 to 5cum=1 sample 6 to 15 cum=2 sample 16 to 30cum=3 smaple 31 to 50cum= 4 sample 51cum and above= one additonal sample for every additional 50 cum or part therof	12	12
	7-days				
	28-days				

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Mecadez Core Technologies Private Ltd. MECHDEZ

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	1
Casting Date	17-Dec-2022
Tested Date	24-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	8.65	150*150*150	2562.96	325.00	0.0225	14.44	14.53	14.49
2	20	7	8.46	150*150*150	2506.67	329.00	0.0225	14.62		
3	20	7	8.16	150*150*150	2417.78	327.00	0.0225	14.53		
4	20	7	8.79	150*150*150	2604.44	326.00	0.0225	14.49	14.44	
5	20	7	8.18	150*150*150	2423.70	321.00	0.0225	14.27		
6	20	7	8.93	150*150*150	2645.93	328.00	0.0225	14.58		

Results: 7-days Compressive strength of Concrete is 14.49 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	2
Casting Date	17-Dec-2022
Tested Date	24-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	8.95	150*150*150	2651.85	320.00	0.0225	14.22	14.41	14.44
2	20	7	8.47	150*150*150	2509.63	328.00	0.0225	14.58		
3	20	7	8.26	150*150*150	2447.41	325.00	0.0225	14.44		
4	20	7	8.24	150*150*150	2441.48	323.00	0.0225	14.36	14.46	
5	20	7	8.67	150*150*150	2568.89	327.00	0.0225	14.53		
6	20	7	8.95	150*150*150	2651.85	326.00	0.0225	14.49		

Results: 7-days Compressive strength of Concrete is 14.44 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	3
Casting Date	17-Dec-2022
Tested Date	24-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	9.04	150*150*150	2678.52	322.00	0.0225	14.31	14.50	14.53
2	20	7	8.56	150*150*150	2536.30	330.00	0.0225	14.67		
3	20	7	8.35	150*150*150	2474.07	327.00	0.0225	14.53		
4	20	7	8.33	150*150*150	2468.15	325.00	0.0225	14.44	14.55	
5	20	7	8.76	150*150*150	2595.56	329.00	0.0225	14.62		
6	20	7	9.04	150*150*150	2678.52	328.00	0.0225	14.58		

Results: 7-days Compressive strength of Concrete is 14.53 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	4
Casting Date	17-Dec-2022
Tested Date	24-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	9.14	150*150*150	2708.15	324.00	0.0225	14.40	14.59	14.61
2	20	7	8.66	150*150*150	2565.93	332.00	0.0225	14.76		
3	20	7	8.45	150*150*150	2503.70	329.00	0.0225	14.62		
4	20	7	8.43	150*150*150	2497.78	327.00	0.0225	14.53	14.64	
5	20	7	8.86	150*150*150	2625.19	331.00	0.0225	14.71		
6	20	7	9.14	150*150*150	2708.15	330.00	0.0225	14.67		

Results: 7-days Compressive strength of Concrete is 14.61 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	5
Casting Date	17-Dec-2022
Tested Date	24-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	9.23	150*150*150	2734.81	326.00	0.0225	14.49	14.68	14.70
2	20	7	8.75	150*150*150	2592.59	334.00	0.0225	14.84		
3	20	7	8.54	150*150*150	2530.37	331.00	0.0225	14.71		
4	20	7	8.52	150*150*150	2524.44	329.00	0.0225	14.62	14.73	
5	20	7	8.95	150*150*150	2651.85	333.00	0.0225	14.80		
6	20	7	9.23	150*150*150	2734.81	332.00	0.0225	14.76		

Results: 7-days Compressive strength of Concrete is 14.70 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	6
Casting Date	17-Dec-2022
Tested Date	24-Dec-2022

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.33	150*150*150	2764.44	328.00	0.0225	14.58	14.77	14.79
2	20	7	8.85	150*150*150	2622.22	336.00	0.0225	14.93		
3	20	7	8.64	150*150*150	2560.00	333.00	0.0225	14.80		
4	20	7	8.62	150*150*150	2554.07	331.00	0.0225	14.71	14.81	
5	20	7	9.05	150*150*150	2681.48	335.00	0.0225	14.89		
6	20	7	9.33	150*150*150	2764.44	334.00	0.0225	14.84		

Results: 7-days Compressive strength of Concrete is 14.79 N/mm2
Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	7
Casting Date	27-Dec-2022
Tested Date	3-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.42	150*150*150	2791.11	330.00	0.0225	14.67	14.86	14.88
2	20	7	8.94	150*150*150	2648.89	338.00	0.0225	15.02		
3	20	7	8.73	150*150*150	2586.67	335.00	0.0225	14.89		
4	20	7	8.71	150*150*150	2580.74	333.00	0.0225	14.80	14.90	
5	20	7	9.14	150*150*150	2708.15	337.00	0.0225	14.98		
6	20	7	9.42	150*150*150	2791.11	336.00	0.0225	14.93		

Results: 7-days Compressive strength of Concrete is 14.88 N/mm2
Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	8
Casting Date	27-Dec-2022
Tested Date	3-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.52	150*150*150	2820.74	332.00	0.0225	14.76	14.95	14.97
2	20	7	9.04	150*150*150	2678.52	340.00	0.0225	15.11		
3	20	7	8.83	150*150*150	2616.30	337.00	0.0225	14.98		
4	20	7	8.81	150*150*150	2610.37	335.00	0.0225	14.89	14.99	
5	20	7	9.24	150*150*150	2737.78	339.00	0.0225	15.07		
6	20	7	9.52	150*150*150	2820.74	338.00	0.0225	15.02		

Results: 7-days Compressive strength of Concrete is 14.97 N/mm2
Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	9
Casting Date	27-Dec-2022
Tested Date	11-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.61	150*150*150	2847.41	334.00	0.0225	14.84	15.04	15.06
2	20	7	9.13	150*150*150	2705.19	342.00	0.0225	15.20		
3	20	7	8.92	150*150*150	2642.96	339.00	0.0225	15.07		
4	20	7	8.90	150*150*150	2637.04	337.00	0.0225	14.98	15.08	
5	20	7	9.33	150*150*150	2764.44	341.00	0.0225	15.16		
6	20	7	9.61	150*150*150	2847.41	340.00	0.0225	15.11		

Results: 7-days Compressive strength of Concrete is 15.06 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	10
Casting Date	27-Dec-2022
Tested Date	11-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.70	150*150*150	2874.07	336.00	0.0225	14.93	15.13	15.15
2	20	7	9.22	150*150*150	2731.85	344.00	0.0225	15.29		
3	20	7	9.01	150*150*150	2669.63	341.00	0.0225	15.16		
4	20	7	8.99	150*150*150	2663.70	339.00	0.0225	15.07	15.17	
5	20	7	9.42	150*150*150	2791.11	343.00	0.0225	15.24		
6	20	7	9.70	150*150*150	2874.07	342.00	0.0225	15.20		

Results: 7-days Compressive strength of Concrete is 15.15 N/mm2
Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	11
Casting Date	4-Jan-2023
Tested Date	11-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.80	150*150*150	2903.70	338.00	0.0225	15.02	15.21	15.24
2	20	7	9.32	150*150*150	2761.48	346.00	0.0225	15.38		
3	20	7	9.11	150*150*150	2699.26	343.00	0.0225	15.24		
4	20	7	9.09	150*150*150	2693.33	341.00	0.0225	15.16	15.26	
5	20	7	9.52	150*150*150	2820.74	345.00	0.0225	15.33		
6	20	7	9.80	150*150*150	2903.70	344.00	0.0225	15.29		

Results: 7-days Compressive strength of Concrete is 15.24 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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AE-09

Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	12
Casting Date	4-Jan-2023
Tested Date	11-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	9.89	150*150*150	2930.37	340.00	0.0225	15.11	15.30	15.33
2	20	7	9.41	150*150*150	2788.15	348.00	0.0225	15.47		
3	20	7	9.20	150*150*150	2725.93	345.00	0.0225	15.33		
4	20	7	9.18	150*150*150	2720.00	343.00	0.0225	15.24	15.35	
5	20	7	9.61	150*150*150	2847.41	347.00	0.0225	15.42		
6	20	7	9.89	150*150*150	2930.37	346.00	0.0225	15.38		

Results: 7-days Compressive strength of Concrete is 15.33 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	1
Casting Date	17-Dec-2022
Tested Date	14-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.25	150*150*150	2444.44	458.00	0.0225	20.36	20.27	20.24
2	20	28	8.14	150*150*150	2411.85	450.00	0.0225	20.00		
3	20	28	8.36	150*150*150	2477.04	460.00	0.0225	20.44		
4	20	28	8.44	150*150*150	2500.74	452.00	0.0225	20.09	20.21	
5	20	28	8.95	150*150*150	2651.85	450.00	0.0225	20.00		
6	20	28	8.26	150*150*150	2447.41	462.00	0.0225	20.53		

Results: 28-days Compressive strength of Concrete is 20.24 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	2
Casting Date	17-Dec-2022
Tested Date	14-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.65	150*150*150	2562.96	462.00	0.0225	20.53	20.70	20.54
2	20	28	8.32	150*150*150	2465.19	467.00	0.0225	20.76		
3	20	28	8.54	150*150*150	2530.37	468.00	0.0225	20.80		
4	20	28	8.97	150*150*150	2657.78	459.00	0.0225	20.40	20.39	
5	20	28	8.64	150*150*150	2560.00	460.00	0.0225	20.44		
6	20	28	8.32	150*150*150	2465.19	457.00	0.0225	20.31		

Results: 28-days Compressive strength of Concrete is 20.54 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	3
Casting Date	17-Dec-2022
Tested Date	14-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.74	150*150*150	2589.63	464.00	0.0225	20.62	20.79	20.63
2	20	28	8.41	150*150*150	2491.85	469.00	0.0225	20.84		
3	20	28	8.63	150*150*150	2557.04	470.00	0.0225	20.89		
4	20	28	9.06	150*150*150	2684.44	461.00	0.0225	20.49	20.47	
5	20	28	8.73	150*150*150	2586.67	462.00	0.0225	20.53		
6	20	28	8.41	150*150*150	2491.85	459.00	0.0225	20.40		

Results: 28-days Compressive strength of Concrete is 20.63 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	4
Casting Date	17-Dec-2022
Tested Date	14-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.84	150*150*150	2619.26	466.00	0.0225	20.71	20.87	20.72
2	20	28	8.51	150*150*150	2521.48	471.00	0.0225	20.93		
3	20	28	8.73	150*150*150	2586.67	472.00	0.0225	20.98		
4	20	28	9.16	150*150*150	2714.07	463.00	0.0225	20.58	20.56	
5	20	28	8.83	150*150*150	2616.30	464.00	0.0225	20.62		
6	20	28	8.51	150*150*150	2521.48	461.00	0.0225	20.49		

Results: 28-days Compressive strength of Concrete is 20.72 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	5
Casting Date	17-Dec-2022
Tested Date	14-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.93	150*150*150	2645.93	468.00	0.0225	20.80	20.96	20.81
2	20	28	8.60	150*150*150	2548.15	473.00	0.0225	21.02		
3	20	28	8.82	150*150*150	2613.33	474.00	0.0225	21.07		
4	20	28	9.25	150*150*150	2740.74	465.00	0.0225	20.67	20.65	
5	20	28	8.92	150*150*150	2642.96	466.00	0.0225	20.71		
6	20	28	8.60	150*150*150	2548.15	463.00	0.0225	20.58		

Results: 28-days Compressive strength of Concrete is 20.81 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	7
Casting Date	27-Dec-2022
Tested Date	24-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.12	150*150*150	2702.22	472.00	0.0225	20.98	21.14	20.99
2	20	28	8.79	150*150*150	2604.44	477.00	0.0225	21.20		
3	20	28	9.01	150*150*150	2669.63	478.00	0.0225	21.24		
4	20	28	9.44	150*150*150	2797.04	469.00	0.0225	20.84	20.83	
5	20	28	9.11	150*150*150	2699.26	470.00	0.0225	20.89		
6	20	28	8.79	150*150*150	2604.44	467.00	0.0225	20.76		

Results: 28-days Compressive strength of Concrete is 20.99 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	8
Casting Date	27-Dec-2022
Tested Date	24-Jan-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.22	150*150*150	2731.85	474.00	0.0225	21.07	21.23	21.07
2	20	28	8.89	150*150*150	2634.07	479.00	0.0225	21.29		
3	20	28	9.11	150*150*150	2699.26	480.00	0.0225	21.33		
4	20	28	9.54	150*150*150	2826.67	471.00	0.0225	20.93	20.92	
5	20	28	9.21	150*150*150	2728.89	472.00	0.0225	20.98		
6	20	28	8.89	150*150*150	2634.07	469.00	0.0225	20.84		

Results: 28-days Compressive strength of Concrete is 21.07 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	9
Casting Date	27-Dec-2022
Tested Date	1-Feb-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.31	150*150*150	2758.52	476.00	0.0225	21.16	21.32	21.16
2	20	28	8.98	150*150*150	2660.74	481.00	0.0225	21.38		
3	20	28	9.20	150*150*150	2725.93	482.00	0.0225	21.42		
4	20	28	9.63	150*150*150	2853.33	473.00	0.0225	21.02	21.01	
5	20	28	9.30	150*150*150	2755.56	474.00	0.0225	21.07		
6	20	28	8.98	150*150*150	2660.74	471.00	0.0225	20.93		

Results: 28-days Compressive strength of Concrete is 21.16 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	10
Casting Date	27-Dec-2022
Tested Date	1-Feb-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.40	150*150*150	2785.19	478.00	0.0225	21.24	21.41	21.25
2	20	28	9.07	150*150*150	2687.41	483.00	0.0225	21.47		
3	20	28	9.29	150*150*150	2752.59	484.00	0.0225	21.51		
4	20	28	9.72	150*150*150	2880.00	475.00	0.0225	21.11	21.10	
5	20	28	9.39	150*150*150	2782.22	476.00	0.0225	21.16		
6	20	28	9.07	150*150*150	2687.41	473.00	0.0225	21.02		

Results: 28-days Compressive strength of Concrete is 21.25 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	11
Casting Date	4-Jan-2023
Tested Date	1-Feb-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.50	150*150*150	2814.81	480.00	0.0225	21.33	21.50	21.34
2	20	28	9.17	150*150*150	2717.04	485.00	0.0225	21.56		
3	20	28	9.39	150*150*150	2782.22	486.00	0.0225	21.60		
4	20	28	9.82	150*150*150	2909.63	477.00	0.0225	21.20	21.19	
5	20	28	9.49	150*150*150	2811.85	478.00	0.0225	21.24		
6	20	28	9.17	150*150*150	2717.04	475.00	0.0225	21.11		

Results: 28-days Compressive strength of Concrete is 21.34 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	M20 Concrete For Drain Wall
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	12
Casting Date	4-Jan-2023
Tested Date	1-Feb-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	9.59	150*150*150	2841.48	482.00	0.0225	21.42	21.59	21.43
2	20	28	9.26	150*150*150	2743.70	487.00	0.0225	21.64		
3	20	28	9.48	150*150*150	2808.89	488.00	0.0225	21.69		
4	20	28	9.91	150*150*150	2936.30	479.00	0.0225	21.29	21.27	
5	20	28	9.58	150*150*150	2838.52	480.00	0.0225	21.33		
6	20	28	9.26	150*150*150	2743.70	477.00	0.0225	21.20		

Results: 28-days Compressive strength of Concrete is 21.43 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Project Management Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

Job No: **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

Contractor **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

Sl. No	Particulars of the Tests	100mm Precast Slab Core Cut			
		Quantity Sqm	Frequency of Tests	Tests Required	Tests Carried Out
	Core Cutting				
1	Compressive strength test	1233.11	One Test Per Source of supply	1	1

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Mecadez Core Technologies Private Limited

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Test Report
Concrete Compressive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	100mm Precast Slab Core Cut
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Test Location	Laboratory
Sample No	1
Tested Date	23-Dec-2022

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (Kg/m³)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the dia. (Strength of the Core X 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	100.00	99.57	0.62	792.499	0.9957	0.89	131.529	16.74	18.08	20.28	25.35
2	100.00	98.62	0.61	787.227	0.9862	0.89	130.27	16.58	17.91	20.11	25.14
3	100.00	99.68	0.6	766.088	0.9968	0.89	132.16	16.82	18.17	20.37	25.47

Results: Compressive strength of 100mm thick Precast Slab is 25.32 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

Authorised Signature

Mecadez Core Technologies Private Limited

Project Management Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

Job No: **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

Contractor **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

Sl. No	Particulars of the Tests	230mm Precast Slab Core Cut			
		Quantity Sqm	Frequency of Tests	Tests Required	Tests Carried Out
	Core Cutting				
1	Compressive strength test	204.96	One Test Per Source of supply	1	1

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Test Report
Concrete Compressive strength

Project Name	PACKAGE NO.06 (CONSISTS OF 14 WORKS)
Client	Excecutive Engineer -Byatarayanapura Division
Job No	MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
Mix Type	230mm Precast Slab Core Cut
Contractor	M/s. SMLP Asphalts Prop. Sri B B Umesha,
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Test Location	Laboratory
Sample No	1
Tested Date	23-Dec-2022

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (Kg/m³)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the dia. (Strength of the Core X 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	100.00	98.47	0.62	801.352	0.9847	0.89	127.6	16.24	17.54	19.70	24.62
2	100.00	99.56	0.61	779.795	0.9956	0.89	132.39	16.85	18.20	20.41	25.52
3	100.00	99.42	0.6	768.091	0.9942	0.89	131.53	16.74	18.08	20.28	25.35

Results: Compressive strength of 100mm thick Precast Slab is 25.16 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Privete Limited

Authorised Signature